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DEPARTMENT OF MEDICAL

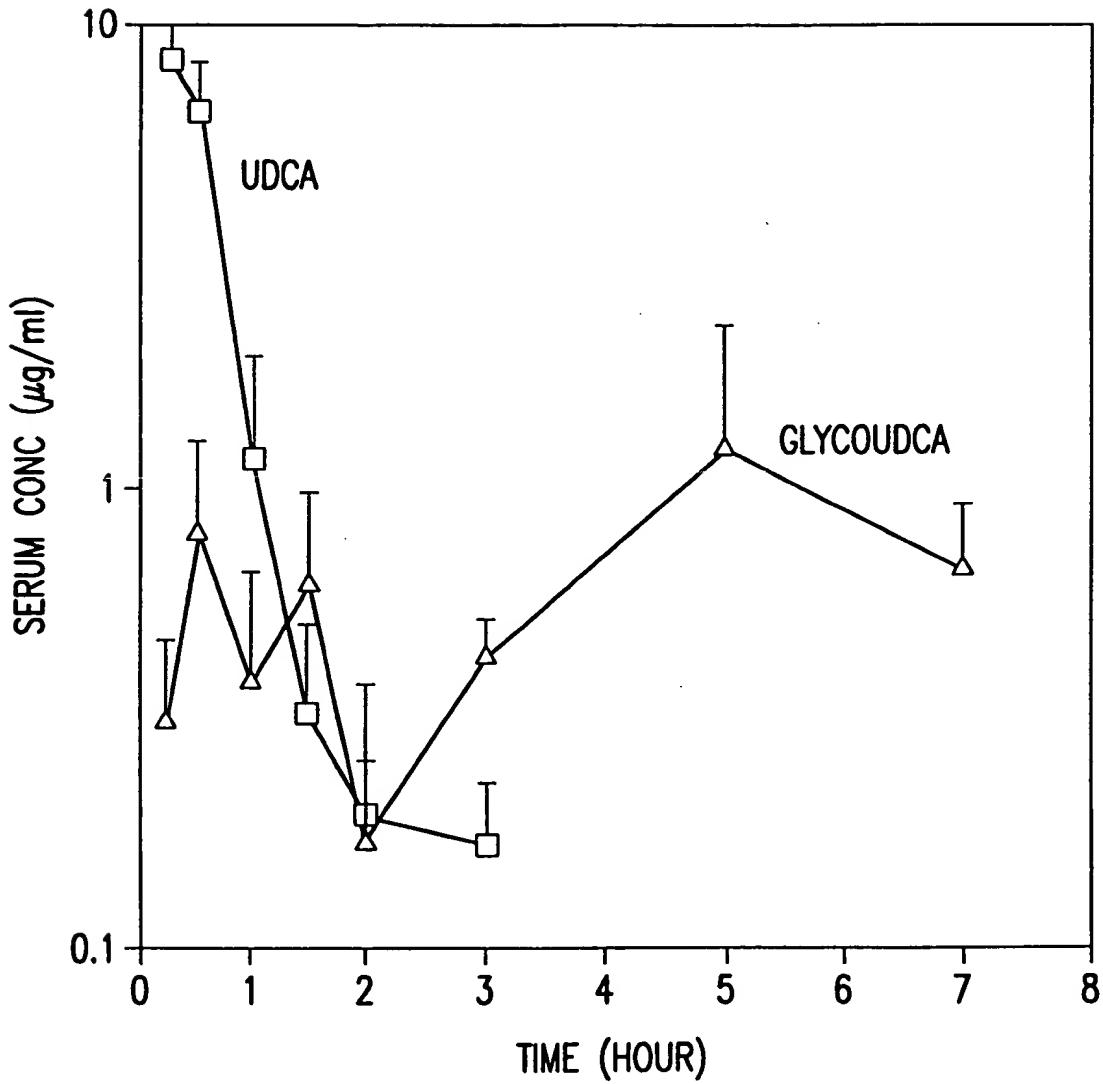


FIG.1

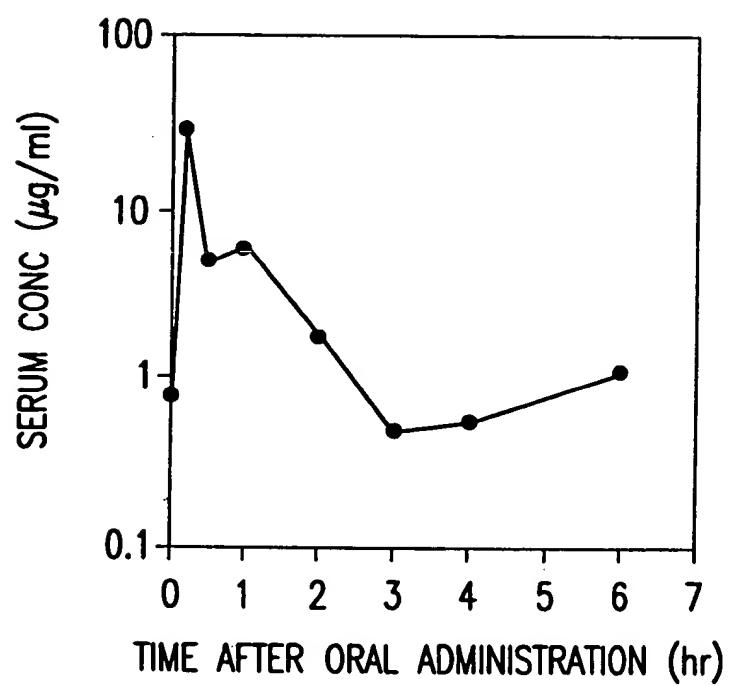
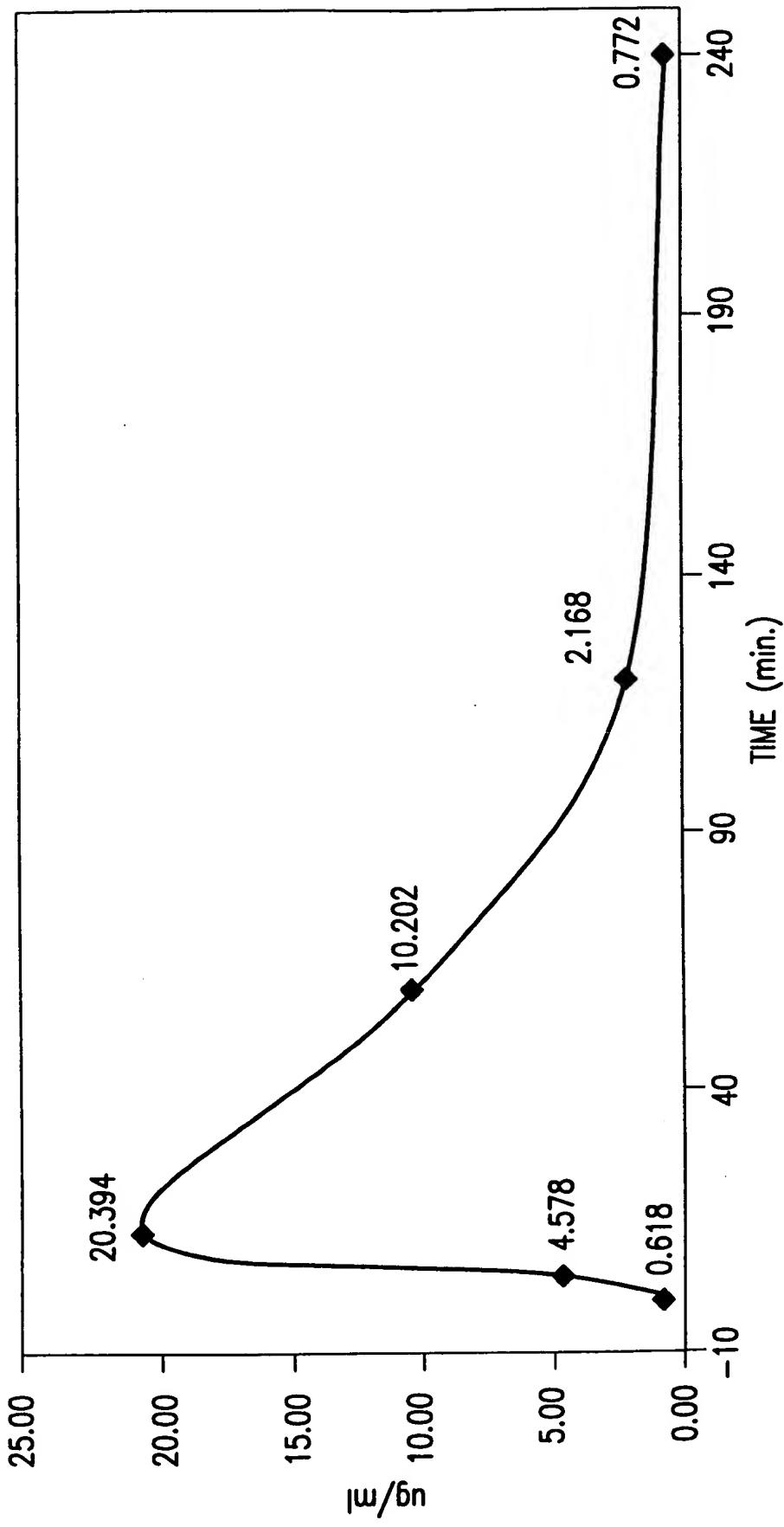


FIG.2

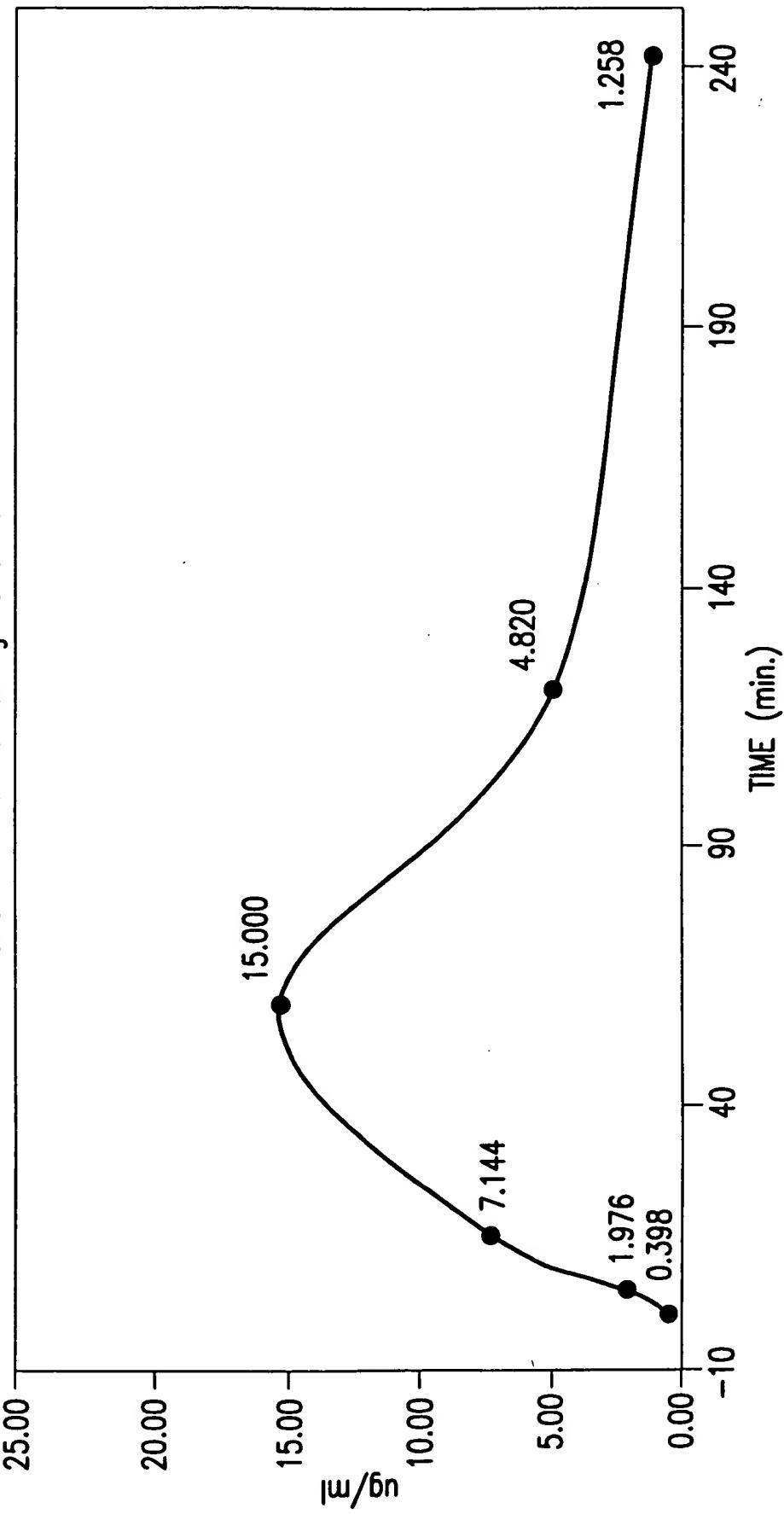
PHARMACOKINETIC PARAMETERS OF UDCA IN HUMAN  
AFTER AN ORAL ADMINISTRATION OF LIQUID FORMULATION OF UDCA  
DIAGRAM OF THE MEAN (n=5) FOR GROUP 1  
GROUP I : DOSE 600mg AS SOLUTION



\* EACH BILE ACID WAS DETECTED WITH STANDARD PROCEDURE BY LC-1500 SERIES HPLC SYSTEM OF JASCO EQUIPED WITH 3  $\alpha$ -HSD(3  $\alpha$ -HYDROXYSTEROIDE DEHYDROGENASE) COLUMN

FIG.3

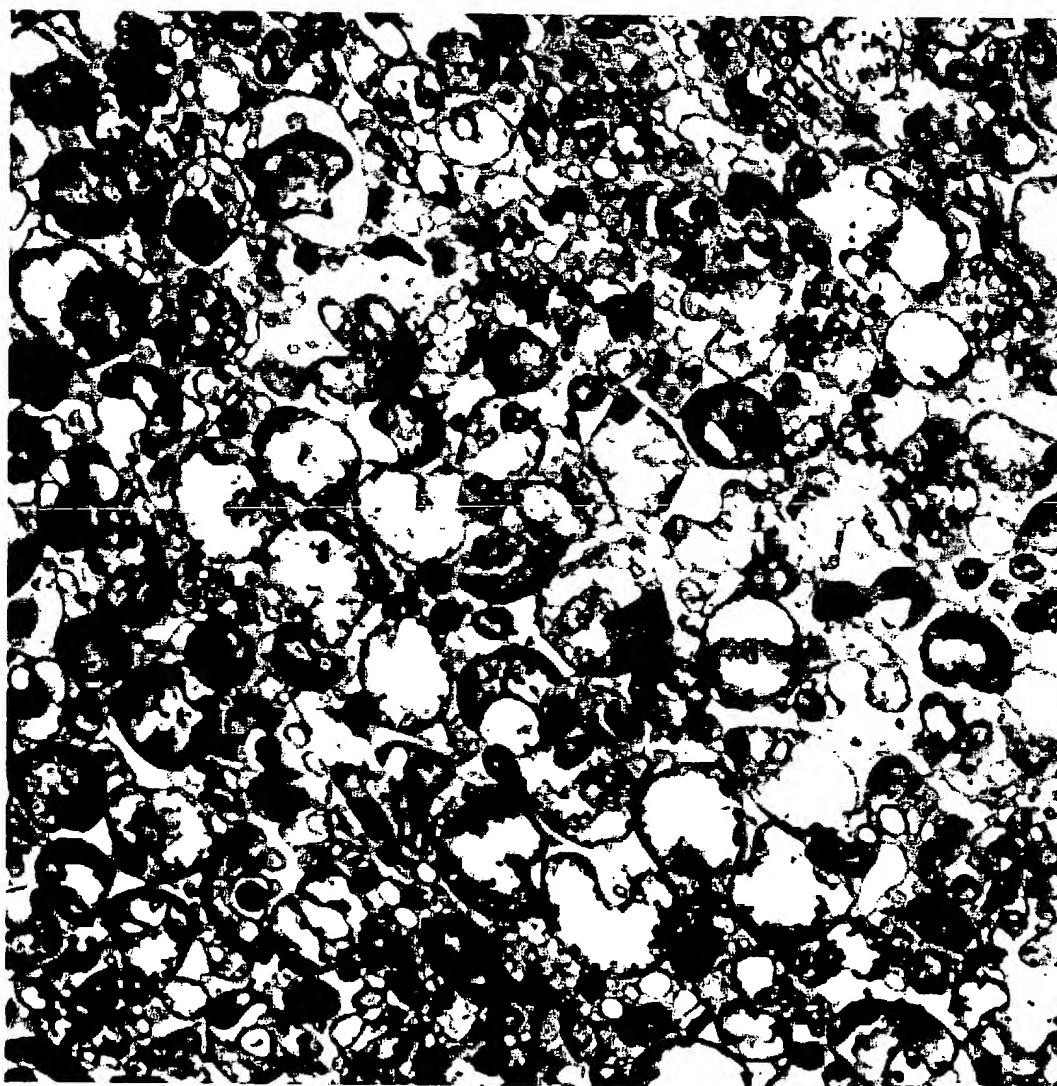
PHARMACOKINETIC PARAMETERS OF UDCA IN HUMAN  
AFTER AN ORAL ADMINISTRATION OF LIQUID FORMULATION OF UDCA  
DIAGRAM OF THE MEAN (n=5) FOR GROUP II  
GROUP II : DOSE 600mg AS SYRUP



\* EACH BILE ACID WAS DETECTED WITH STANDARD PROCEDURE BY LC-1500 SERIES HPLC SYSTEM OF JASCO EQUIPED WITH 3  $\alpha$ -HSD(3  $\alpha$ -HYDROXYSTEROIDE DEHYDROGENASE) COLUMN

FIG.4

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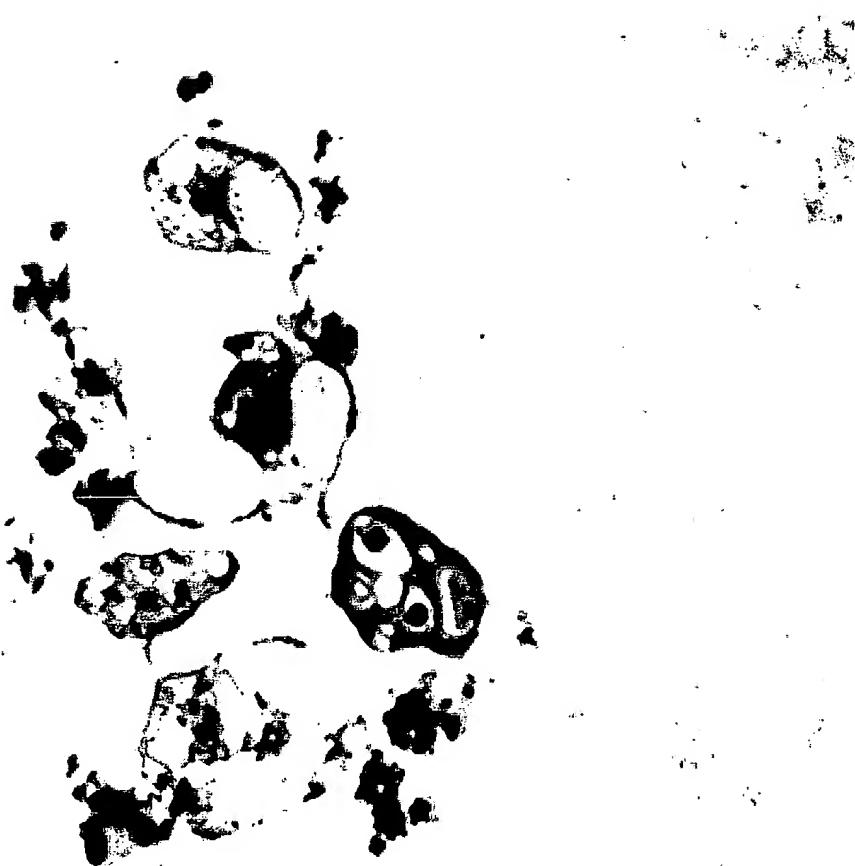
*H. pylori* cultured from Columbia medium pictured by  
Transmission Electron Microscope

**FIG.5A**

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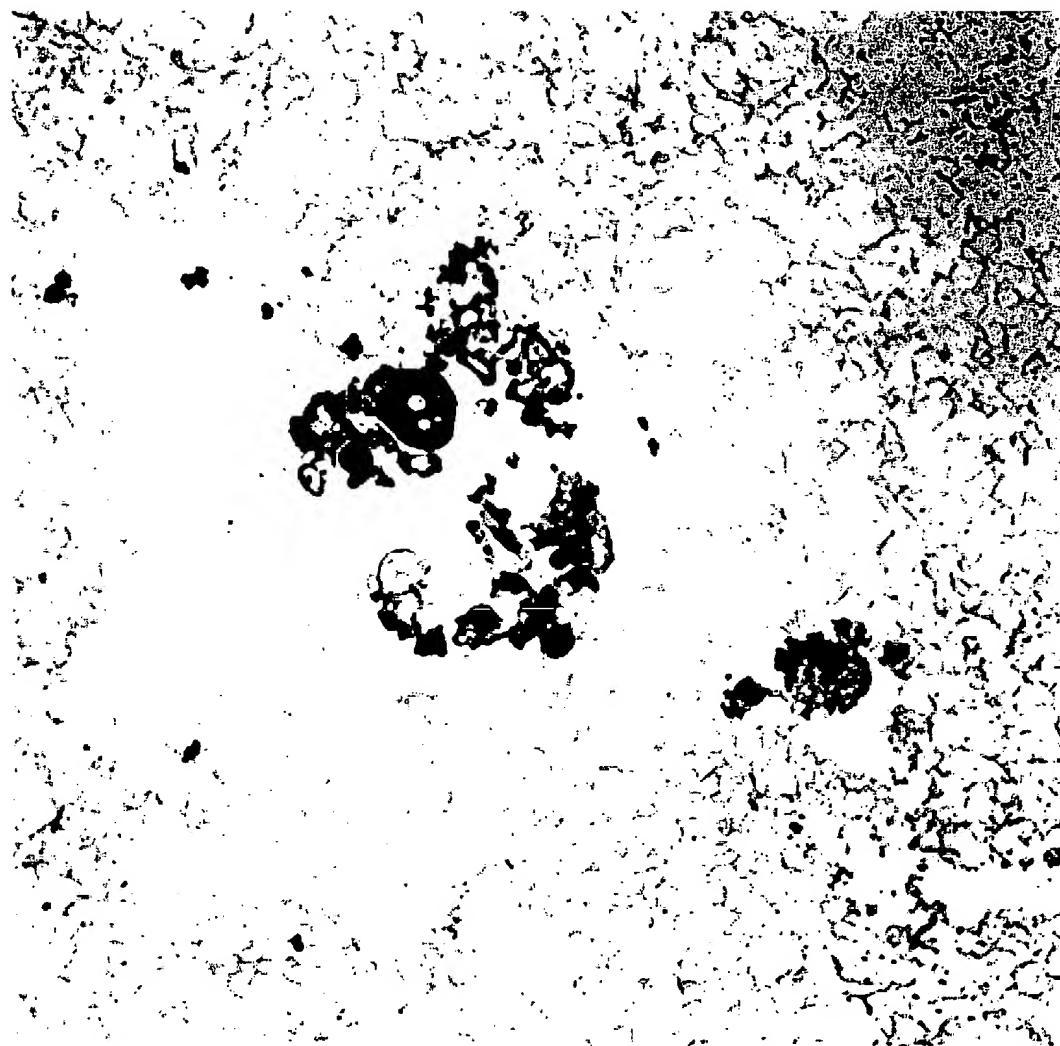
09228144-00520



48hrs, after *H. pylori* treated with UDCA & bismuth citrate  
pictured by Transmission Electron Microscope

**FIG.5B**

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72hrs, after *H. pylori* treated with UDCA & bismuth citrate  
pictured by Transmission Electron Microscope

**FIG.5C**

UDCA IN THE LIQUID FORMULATION DOSAGE FORM:  
THIS DATA SHOWS THAT THIS UDCA IS ABSOLUTELY FREE UDCA

NMR DATA FOR UDCA IN THE LIQUID FORMULATION DOSAGE FORM:  
THIS DATA SHOWS THAT THIS UDCA IS ABSOLUTELY FREE UDCA

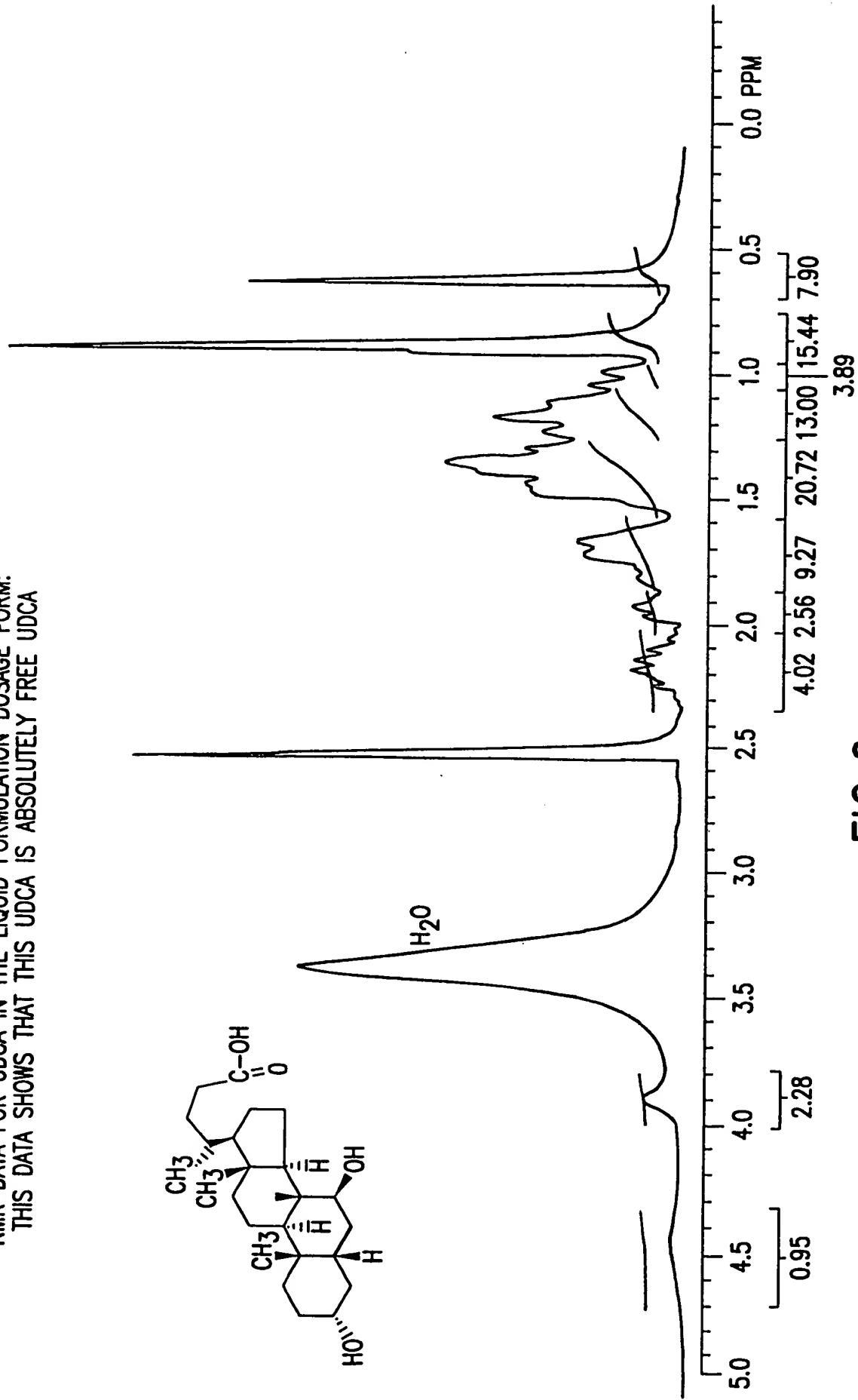


FIG. 6

HPLC FOR UDCA IN THE LIQUID FORMULATION DOSAGE FORM

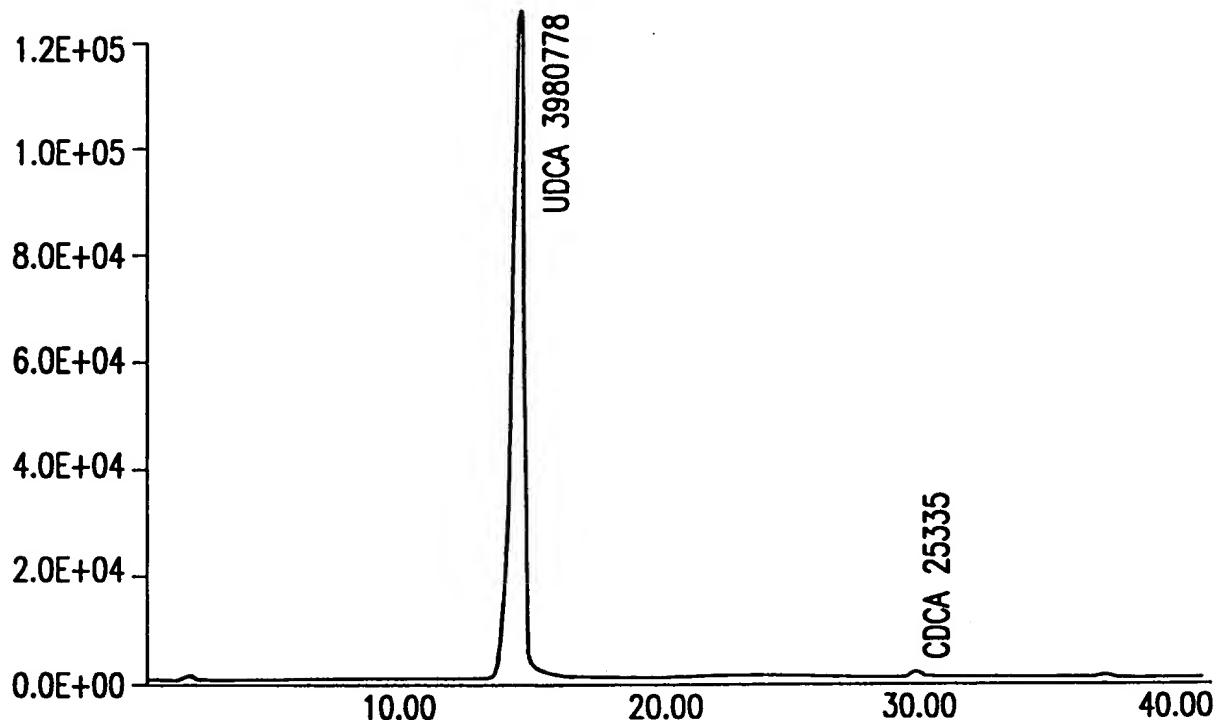


FIG.7

HPLC FOR STANDARD UDCA

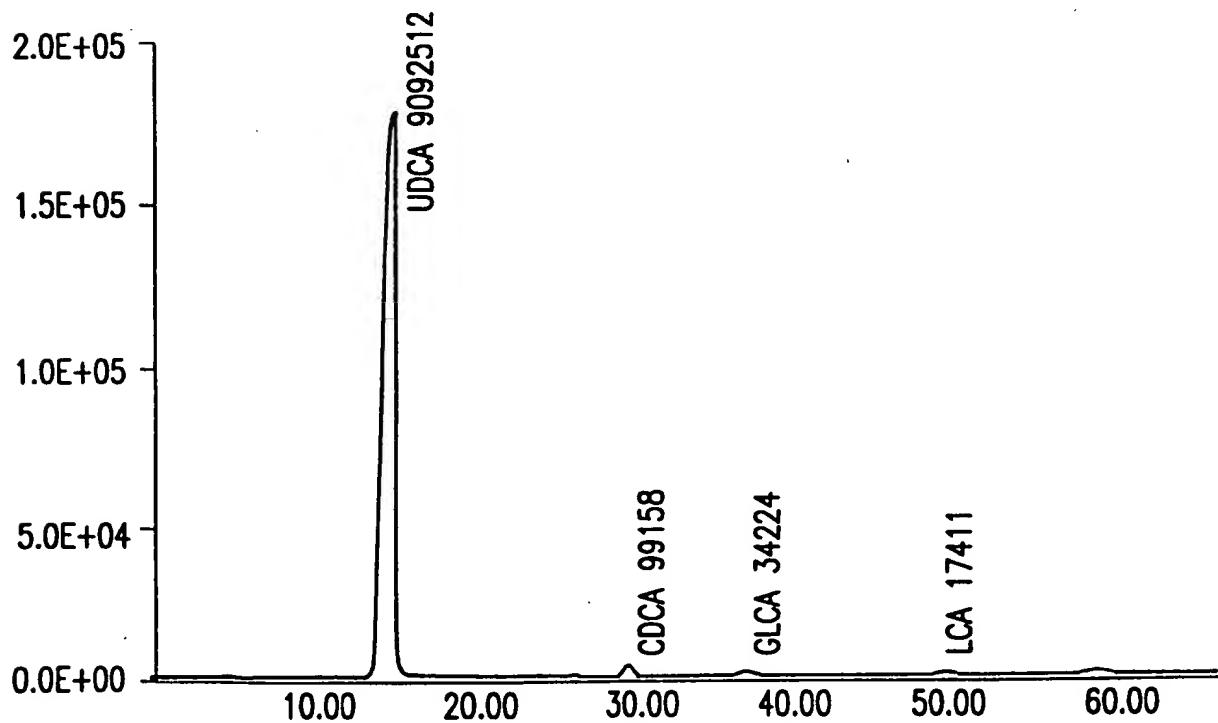
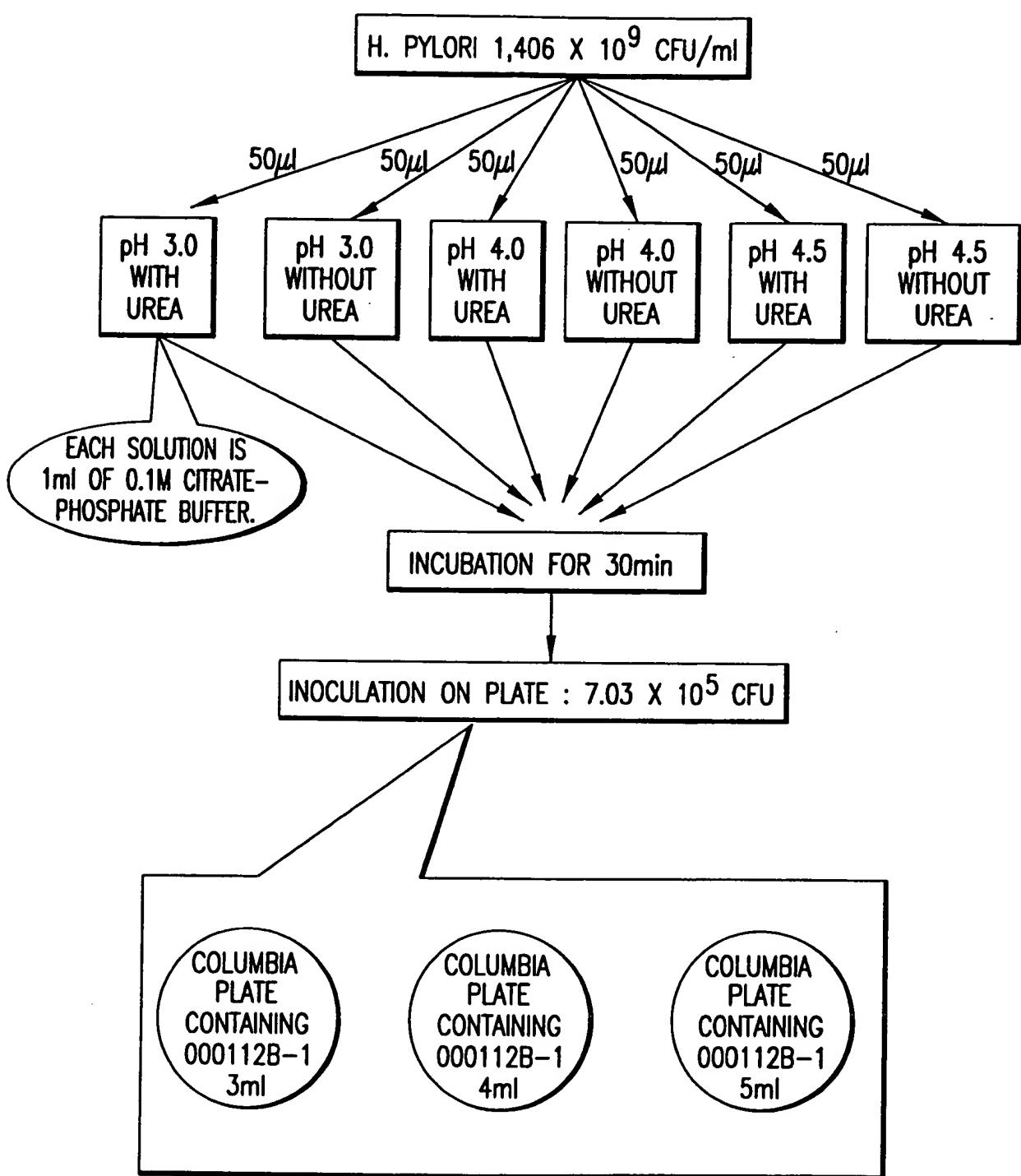


FIG.8

ABSTRACT DIAGRAM FOR THE CULTURE METHOD

(i) METHOD WITH THE VARIOUS pH VALUES.

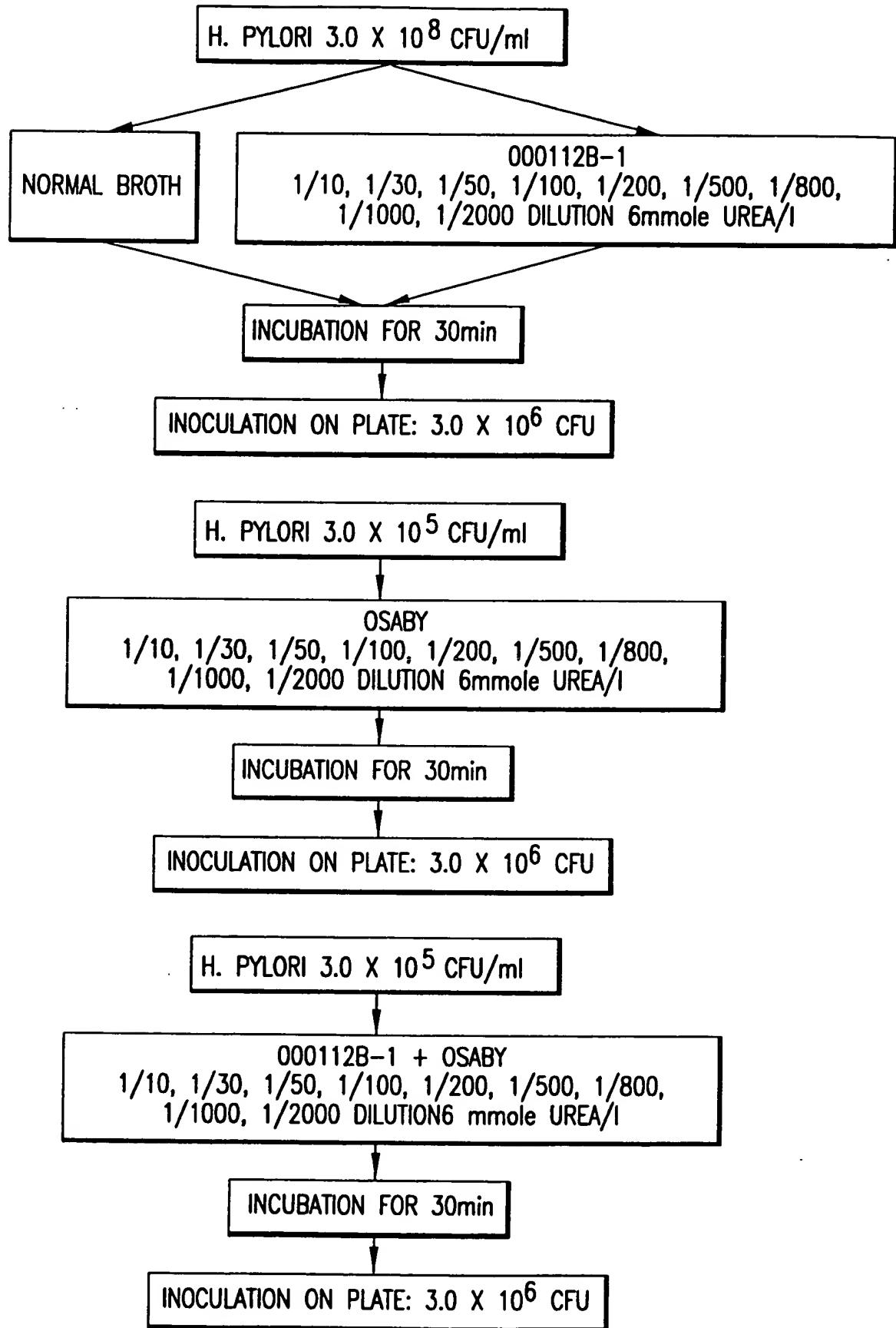
FIG.9 ABSTRACT DIAGRAM FOR THE CULTURE METHOD



PLATES WERE INCUBATED MICROAEROPHILICALLY AT 37°C FOR 72 HOURS.

FIG.9

## (ii) METHOD WITH THE VARIOUS CONCENTRATIONS.



PLATES WERE INCUBATED MICROAEROPHILICALLY AT 37°C FOR 72 HOURS.

FIG. 10

(iii) METHOD WITH THE VARIOUS CONCENTRATIONS + VARIOUS INCUBATION TIME.

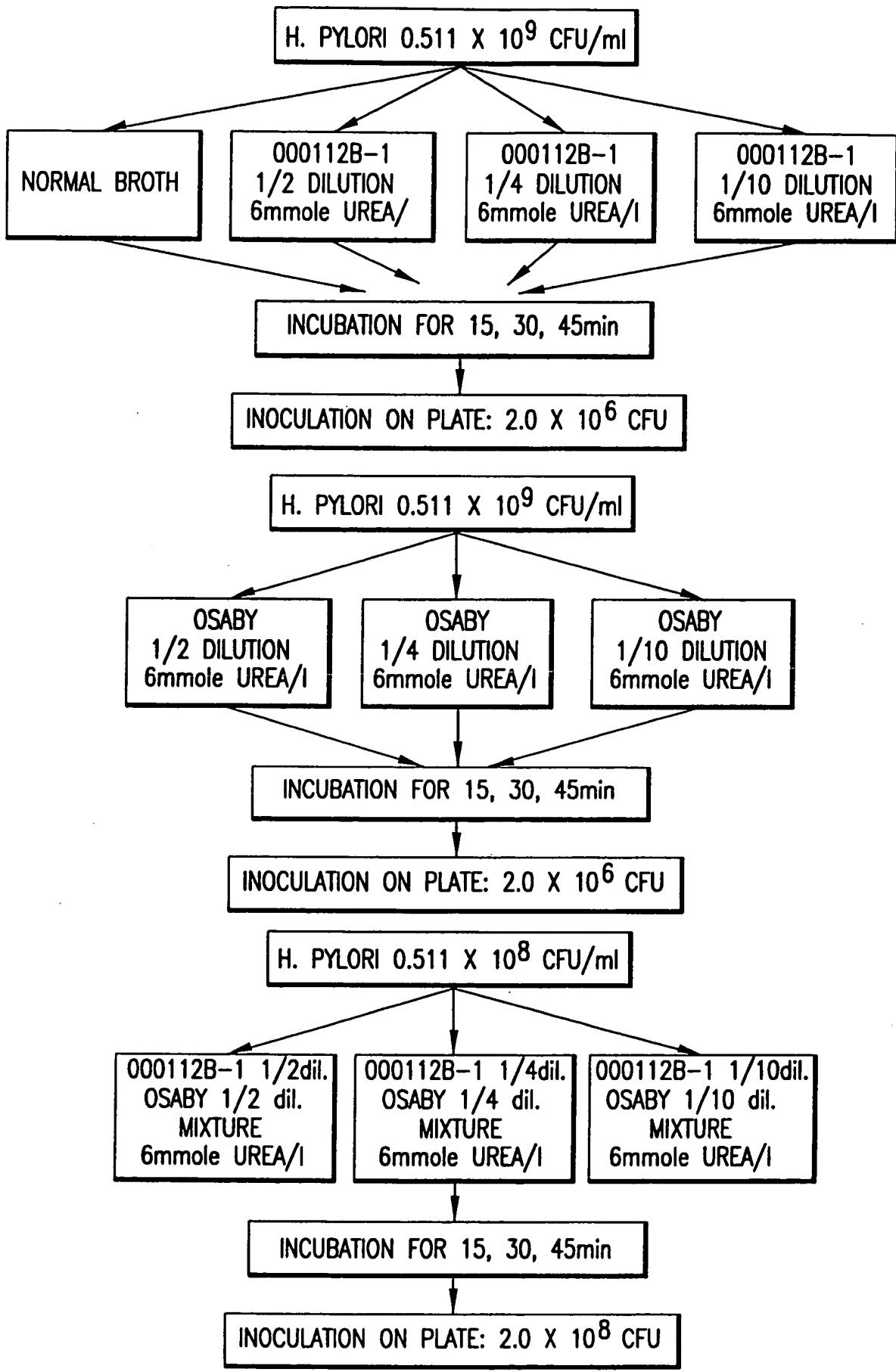


FIG.11 PLATES WERE INCUBATED MICROAEROPHILICALLY AT 37°C FOR 72 HOURS.